PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	ннн ннн ннн ннн	00000000 00000000 00000000	NNN NNN NNN NNN	
PPP PPP PPP PPP	HHH HHH HHH	000 000 000 000 000 000	NNN NNN NNN NNN	EEE EEE
PPP PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	HHH HHH HHH HHH HHH	000 000 000 000 000 000	NNNNNN NNN NNNNNN NNN NNN NNN NNN	EEE EEE EEEEEEEEEEEEE
PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	нинининининин нинининининин нин	000 000 000 000 000	NNN NNN NNN NNN NNN NNN NNN NNNNNN	EEEEEEEEEEEE EEE
PPP PPP PPP	HHH HHH HHH HHH	000 000 000 000	NNN NNNNN NNN NNNNNN	EEE EEE
PPP PPP PPP	HHH HHH HHH HHH HHH HHH	000 000 000 000 00000000 000000000	NNN NNN NNN NNN NNN NNN	EEE EEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEE
PPP	нни нни	000000000	NNN NNN	EEEEEEEEEEEE

_\$2

NN	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	
	\$	
	\$\$ \$\$\$ \$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$	

IN

0044

0045

0046

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Facility: VAX/VMS Telephone Facility, Analyze and Act on Input

Abstract: This module receives all of the terminal input from the user and decides what to do with it. It handles

both conversation text and commands.

Environment:

1 .

Author: Paul C. Anagnostopoulos, Creation Date: 10 November 1980

Modified By:

V03-001 PCA1020 Paul C. Anagnostopoulos 24-May-1983 Support 8-bit characters.
Add PHONE as a synonym for the DIAL command.

```
16-Sep-1984 02:10:30
14-Sep-1984 12:53:25
                                                                                                                  VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER: [PHONE.SRC]INPUT.B32;1
INPUT
                     INPUT - Analyze and Act on Input
V04-000
                    Module Declarations
                    "sbttl 'Module Declarations'
                                 Libraries and Requires:
     library 'sys$library:starlet.l32';
library 'sys$library:tpamac.l32';
require 'phonereq';
                                 Table of Contents:
     661234566689012345678901234567890
                               forward routine
                                         phn$kbd_route: novalue,
                                         phn$cmd_parse: novalue;
                                 External References:
                               external routine
                                          lib$tparse: addressing_mode(general),
                                         phn$answer_cmd,
                                          phn$break_call.
                                          phn$conversing,
                                          phn$dial_cmd.
                                         phn$directory_cmd.
                                         phnSexit_cmd.
phnSfacsimile_cmd.
                                         phn$fresh_screen,
                                         phn$hangup_cmd,
                                         phn$help_cmd.
phn$hold_cmd.
                                         phn$inform,
                                         phn$mail_cmd
                                         phn$queue_smb,
phn$reject_cmd,
                                          phn$show_text,
                                         phn$transcribe_cmd.
                                         phn$unhold_cmd;
     91
                               external literal
     92
93
94
95
96
97
                                          lib$_syntaxerr;
                                 Own Variables:
```

```
IN
```

```
INPUT
                                                                                                                                VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[PHONE.SRC]INPUT.B32;1
                       INPUT - Analyze and Act on Input
PHN$KBD_ROUTE - Initial Routing of Input
                                                                                             16-Sep-1984 02:10:30
14-Sep-1984 12:53:25
V04-000
                                  %sbttl 'PHN$KBD_ROUTE - Initial Routing of Input'
    99
100
101
102
103
104
105
106
107
108
                       Functional Description:
This steering message routine is invoked after we collect a bit of input from the keyboard. It splits up the input into conversation text and command text and routes these
                                              to the appropriate steering routine for further processing.
                                     Formal Parameters:
                                              input
                                                                      Address of descriptor of input.
    110
                                      Implicit Inputs:
                                              global data
    112
113
114
115
116
117
                                      Implicit Outputs:
                                              globat data
                                      Returned Value:
                                              none
    118
                                     Side Effects:
    120
121
123
124
127
127
128
129
131
133
133
137
138
139
                                  global routine phn$kbd_route(input): novalue = begin
                                  bind
                                              input_dsc = .input: descriptor:
                                  OWN
                                              command_flag: byte initial(false);
                                  OMU
                                              text_buf: vector[80,byte],
                                                                                                         ! These variables are OWN due
                                              buf_1: long;
                                                                                                         ! up-level referencing.
                                  local
                                              conversing: byte,
                                              char: byte.
                                              p: ref pub;
    140
    141
142
143
                                  bind
                                              ctrl_w_cmd = describe(%string(%char(ctrl_u,ctrl_w,ret))),
exit_cmd = describe(%string(%char(ctrl_u),'EXII',%char(ret))),
hangup_cmd = describe(%string(%char(ctrl_u),'HANGUP',%char(ret)));
    144
    146
147
148
149
150
151
152
153
                                      The following routine is called when a collection of characters is ready
                                      to be queued to the appropriate steering message routine. If the collection
                                     is non-empty, we queue a steering message. We also clear the buffer for the next collection.
                                  routine queue_collection: novalue = begin
    154
                       0480
                                   local
                                              collection_dsc: descriptor;
```

```
INPUT - Analyze and Act on Input
PHN$KBD_ROUTE - Initial Routing of Input
                                                                                                   16-Sep-1984 02:10:30
14-Sep-1984 12:53:25
INPUT
                                                                                                                                        VAX-11 Bliss-32 V4.0-742 Pa
DISK$VMSMASTER:[PHONE.SRC]INPUT.B32;1
V04-000
                                156
157
158
159
    160
    161
162
163
                                 3);
3 retur
2 end;
    164
                                    return:
                                                                                                                               INPUT INPUT - Analyze and Act on Input
                                                                                                                   .TITLE
                                                                                                                               \V04-000\
                                                                                                                   . IDENT
                                                                                                                   .PSECT $PLIT$, NOWRT, NOEXE, 2
                                                                          OD 17 15 00000 P.AAB:
                                                                                                                   .ASCII
                                                                                                                               <21><23><13>
                                                                                                                   .BLKB
                                                                                             00004 P.AAA:
                                                                                                                   .LONG
                                                                              00000003
                                                                             000000000
                                                                                                                   .ADDRESS P.AAB
.ASCII <21>\EXIT\<13>
                                                                                            0000C P.AAD:
00012
00014 P.AAC:
00018
                                                             54 49 58 45
                                                                                                                   .BLKB
                                                                                                                   . LONG
                                                                              00000006
                                                                                                                   .ADDRESS P.AAD
.ASCII <21>\HANGUP\<13>
                                                                              00000000
                                                 50
                                                       55 47 4E 41
                                                                               48 15
                                                                                             0001C P.AAF:
                                                                              80000000
                                                                                             00024 P.AAE:
                                                                                                                   .LONG
                                                                              00000000
                                                                                             00028
                                                                                                                   .ADDRESS P.AAF
                                                                                                                   .PSECT SOWNS, NOEXE, 2
                                                                                            00000 COMMAND_FLAG:
                                                                                                                   .BYTE
                                                                                                                               03
                                                                                                                   .BLKB
                                                                                             00004 TEXT_BUF:
                                                                                                                               80
                                                                                             00054 BUF_1: .BLKB
                                                                                                      CTRL W CMD=
EXIT_CMD=
                                                                                                                                     P.AAA
                                                                                                                              P.AAC
P.AAE
PHNS OK, PHNS ANSWERED
PHNS BUSYCALL, PHNS CANCALL
PHNS CANTREACH, PHNS CONF CALL
PHNS DEAD, PHNS DECNETLINK
PHNS DIRCAN, PHNS FACSCAN
PHNS HELPCAN, PHNS HUNGUP
PHNS JUSTRANG, PHNS LOGGEDOFF
PHNS REJECTED, PHNS RING
PHNS REJECTED, PHNS RING
PHNS SENDINGMAIL
PHNS BADCMD, PHNS BADHELP
PHNS BADMAILCMD
PHNS BADSMB, PHNS BADSPEC
PHNS HELPMISSING
PHNS IVREDUNCALL
                                                                                                                                     P.AAC
                                                                                                      HANGUP_CMD=
                                                                                                                   .EXTRN
                                                                                                                   .EXTRN
                                                                                                                   .EXTRN
                                                                                                                   .EXTRN
                                                                                                                   .EXTRN
                                                                                                                   .EXTRN
                                                                                                                   .EXTRN
                                                                                                                    .EXTRN
                                                                                                                    EXTRN
                                                                                                                   .EXTRN
                                                                                                                   .EXTRN
                                                                                                                   .EXTRN
                                                                                                                   .EXTRN
```

.EXTRN .EXTRN .EXTRN VO

```
IN
```

```
16-Sep-1984 02:10:30
14-Sep-1984 12:53:25
                                  INPUT - Analyze and Act on Input
PHN$KBD_ROUTE - Initial Routing of Input
                                                                                                                                                                                              VAX-11 Bliss-32 V4.0-742 PEDISK$VMSMASTER: [PHONE.SRC]INPUT.B32;1
INPUT
V04-000
                                                                                                                                                                                PHNS LINKERROR, PHNS NEEDUSER
PHNS NOCALL, PHNS NOHOLDS
PHNS NOPROC, PHNS NOTCONV
PHNS NOPROC, PHNS NOTCONV
PHNS ONLYNODE, PHNS PHONEBUSY
PHNS REMOTEERROR
PHNS TARGTERM, PHNS UNPLUGGED
PHNS BADTERM, PHNS SHAREDMBX
PHNS INPUTTERM, PHNSGQ NODE NAME
PHNSGQ SWITCH HOOK
PHNSGD SWITCH HOOK
PHNSGB SCROLL, PHNSGQ PUBHEAD
PHNSGB FLAGS, LIBSTPARSE
PHNSANSWER CMD, PHNSBREAK CALL
PHNSCONVERSING, PHNSDIAL TMD
PHNSLIT CMD, PHNSFACSIMILE CMD
PHNSFRESH SCREEN
PHNSHANGUP CMD, PHNSHELP CMD
PHNSHANGUP CMD, PHNSINFORM
PHNSMAIL CMD, PHNSINFORM
PHNSMAIL CMD, PHNSSHOW TEXT
PHNSTRANSCRIBE CMD
PHNSUNHOLD CMD, LIBS SYNTAXERR
                                                                                                                                                                .EXTRN
                                                                                                                                                                 .EXTRN
                                                                                                                                                                .EXTRN
                                                                                                                                                                 .EXTRN
                                                                                                                                                                 .EXTRN
                                                                                                                                                                 .EXTRN
                                                                                                                                                                .EXTRN
                                                                                                                                                                 .EXTRN
                                                                                                                                                                  EXTRN
                                                                                                                                                                  EXTRN
                                                                                                                                                                 .EXTRN
                                                                                                                                                                 .EXTRN
                                                                                                                                                                .PSECT
                                                                                                                                                                                $CODE$,NOWRT,2
                                                                                                                       0004 00000 QUEUE_COLLECTION:
                                                                                                                                                                 . WORD
                                                                                                                                                                                                                                                                                     0478
                                                                                                                                                                                  Save R2
                                                                                                                                                                                 BUF_I, R2
#8, SP
BUF_I, R0
3$
                                                                                    52
5E
50
                                                                                                                                 00002
                                                                                                   0000
                                                                                                                                                                MOVAB
                                                                                                                   082B02E232422
                                                                                                                                                                SUBL 2
                                                                                                                           DÖ
13
                                                                                                                                                                                                                                                                                      0483
                                                                                                                                 A0000
                                                                                                                                                                MOVL
                                                                                                                                 0000D
                                                                                                                                                                BEQL
                                                                                                                          BO 0000F
9E 00012
                                                                                                                                                                                                                                                                                      0484
                                                                                                                                                                MOVW
                                                                                                                                                                                  RO. COLLECTION_DSC
                                                                                                                                                                                  TEXT_BUF, COLLECTION_DSC+4
                                                                         04
                                                                                    AE
                                                                                                        BO
                                                                                                                                                                MOVAB
                                                                                                                          DD 00017
E9 00019
DD 0001D
11 0001F
                                                                                                                                                                PUSHL
                                                                                                                                                                                  SP
                                                                                                                                                                                                                                                                                      0486
                                                                                    04
                                                                                                        AC
                                                                                                                                                                                  COMMAND_FLAG, 1$
                                                                                                                                                                BLBC
                                                                                                                                                                                  #3
2$
                                                                                                                                                                PUSHL
                                                                                                                                                                BRB
                                                                                                                                00021 1$:
00023 2$:
00028
                                                                                                                                                                PUSHL
                                                                                                                           DD
                                                                                                                                                                                 #2. P
                                                                     0000G CF
                                                                                                                           FB
                                                                                                                                                                                         PHN$QUEUE_SMB
                                                                                                                           04
                                                                                                                                                                                                                                                                                     0488
                                                                                                                                                                CLRL
                                                                                                                                                                                                                                                                                     0491
                                                                                                                                 0002A 35:
                                                                                                                                                                RET
: Routine Size: 43 bytes.
                                                                Routine Base: $CODE$ + 0000
```

```
IN
```

Page

```
B 2
16-Sep-1984 02:10:30
14-Sep-1984 12:53:25
                         INPUT - Analyze and Act on Input
PHNSKBD_ROUTE - Initial Routing of Input
                                                                                                                                            VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER: [PHONE.SRC]INPUT.B32;1
INPUT
V04-000
                                  2! The first thing we have
2! If the scroller flag is
2! is in progress. We need
2! and refresh the screen.
                                        The first thing we have to do is check to see what state the screen is in. If the scroller flag is set, some scrolling-type command (e.g., HELP) is in progress. We need to reset the flag to cancel the command,
    167
                         0492
0493
0494
0495
0496
0497
0498
0500
0501
0502
0503
    168
169
170
171
172
173
174
175
176
177
178
                                  32):
                                  Next thing we do is check to see if a message is sitting on the message line. If so, we want to clear it out.
    180
181
182
183
184
185
                         0506
0507
0508
0509
0510
                                     ):
    186
187
                                      ! Another thing we need to check for is whether the user is currently
                         0512
0513
0514
0515
                                      ! ringing someone's phone. If so, we cancel the call immediately.
    188
189
                                     190
                         0516
0517
0518
    191
    192
                                  2 ! Finally, we have to see if a facsimile operation is in progress. 2 ! If so, we cancel it by turning off the flag.
                         0519
    194
                         0520
0521
    195
                                  2 phn$gv_facsimile = false;
    196
```

```
INPUT
                                                                                           16-Sep-1984 02:10:30
14-Sep-1984 12:53:25
                                                                                                                             VAX-11 Bliss-32 V4.0-742 P. DISK$VMSMASTER: [PHONE.SRC]INPUT.B32;1
                      INPUT - Analyze and Act on Input
PHNSKBD_ROUTE - Initial Routing of Input
V04-000
    1990123456789011234567890123456789
                      Now we are going to look at the input typed by the user. We will split
                                 ! it up into conversation text and command text.
                                  conversing = phn$conversing();
                                  buf_i = 0;
                                  while dec (input_dsc[len]) geq 0 do (
                                              char = ch$rchar_a(input_dsc[ptr]);
                                              command_flag = .command_flag or (not .conversing);
if .command_flag then
                                                           We are in the middle of a command. Process each character:
return
Switch hook
CTRL/W
CTRL/Z
Done with this command, start another.
Flush current command & refresh screen.
Flush current command & force EXIT.
                                                                                           Add to current command.
                                                                    others
                                                         selectoneu .char of set
[ret]: (text bu
                                                                                (text_buf[.buf_i] = ret;
inc(buf_i);
                                                                                queue_collection();
command_flag = false;);
                                                         queue_collection(););
                                                         [ctrl_w]:
                                                                                (queue_collection();
                                                                                phn$queue_smb(smb_cmd_parse,ctrl_w_cmd);
command_flag = false;);
                                                         [ctrl_z]:
                                                                                (queue_collection();
                                                                                phn$queue smb(smb_cmd_parse,exit_cmd);
command_flag = false;);
                      0561
0562
0563
                                                         [otherwise]:
                                                                                (text_buf[.buf_i] = .char;
                                                                                inc(buf_i););
                                                         tes
```

IN

...........

```
INPUT
                        INPUT - Analyze and Act on Input
PHN$KBD_ROUTE - Initial Routing of Input
                                                                                                  16-Sep-1984 02:10:30
14-Sep-1984 12:53:25
                                                                                                                                       VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[PHONE.SRC]INPUT.B32;1
                                                                                                                                                                                               Page
V04-000
    2443445678901234567890123645
244344567890123455678901236645
                                                    else
                        0564
0565
05667
05568
0570
0577
0577
0577
0577
0577
0577
                                                                 The user is entering some conversation text. Process each
                                                                 character as follows:
                                                                                                  Suspend talking, start a new command. Suspend talking, refresh screen. Suspend talking, force HANGUP command.
                                                                          switch hook
                                                                          CTRL/W
                                                                          CTRL/Z
                                                                          others
                                                                                                   Add to conversation text.
                                                              selectoneu .char of set
                                                             [ctrl_w]:
                                                                                      (queue_collection();
                                                                                      phn$queue_smb(smb__cmd_parse,ctrl_w_cmd););
                        0580
                        0581
                                                             [ctrl_z]:
                                                                                      (queue_collection();
                                                                                      phn$queue_smb(smb__cmd_parse,hangup_cmd););
                        0584
0585
                                                                                      (text_buf[.buf_i] = .char;
inc(buf_i););
                                                             [otherwise]:
                        0586
0587
                                                             tes:
                        0588
   266
267
268
269
270
271
272
                        0589
                        0590
                                    ! Make sure we queue any final collection we were in the process of building.
                        0591
                        0592
0593
                                    queue_collection();
                                    return;
                        0594
0595
                                    end:
                                                                                                                              PHN$KBD ROUTE, Save R2,R3,R4,R5,R6,R7,R8
CTRL W CMD, R8
PHN$GB_FLAGS, R7
QUEUE_COLLECTION, R6
BUF I, R5
INPUT, R3
                                                                                     01FC
                                                                                            00000
                                                                                                                  .ENTRY
                                                                                                                                                                                                     0450
                                                                       0000G
                                                                                            00002
                                                            58
57
55
55
55
67
63
                                                                                                                  MOVAB
                                                                                            00007
                                                                                                                  MOVAB
                                                                                        9Ē
9Ē
                                                                       0000.
                                                                                            0000C
                                                                                                                  MOVAB
                                                                                            00010
                                                                                                                  MOVAB
                                                                                                                             #1, PHN$GB_FLAGS, 2$
#2, PHN$GB_FLAGS
#23, (R3), a4(R3)
1$
                                                                                 AC
01
02
17
                                                                                                                                                                                                     0453
0497
0498
                                                                                        DO E18A 3A 12
                                                                                            00015
                                                                                                                  MOVL
                                      17
                                                                                            00019
                                                                                                                  BBC
                                                                                            0001D
                                                                                                                  BICB2
                                                                                            00020
00025
00027
                              04
                                      B3
                                                                                                                  LOCC
                                                                                 02
51
51
01
01
67
01
00
                                                                                                                  BNEQ
                                                                                        D4
                                                                                                                  CLRL
                                                                                                                              R1
2$
#1
                                                                                            00029 15:
                                                                                                                  TSTL
                                                                                            0002B
                                                                                                                  BNEQ
                                                                                        DD
                                                                                            00020
                                                                                                                  PUSHL
                                                                                                                                                                                                     0500
                                                                                                                 BLBC
BICB2
                                                                                                                                    PHN$FRESH_SCREEN
                                                            CF
08
67
                                                 0000G
                                                                                        FB
                                                                                            0002F
```

0003A

0003F

FB DO E1

CF 50 C0

0000G

0000G

00F0

05

PHNSGB FLAGS. 3\$ #1, PHNSGB FLAGS #0, PHNSINFORM

PHNSGQ PUBHEAD, P #3, 240(P), 4\$

CALLS

MOVL

BBC

IN

VO

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INPUT V04-000	INPUT - Analyze and PHNSKBD_ROUTE - Init	lct on	Input uting of	Input		E 2 16-Sen- 14-Sen-	1984 02:10 1984 12:53):30 VAX-11 Bliss-32 V4.0-742 DISK\$VMSMASTER:[PHONE.SRC]INPU	Page 9 T.B32;1 (6)
	00000	67		00	FB 0004 8A 0004	A F 45:	CALLS BICB2	#0, PHN\$BREAK CALL #8, PHN\$GB FLAGS #0, PHN\$CONVERSING R0, CONVERSING BUF I (R37, R0	; 0516 ; 0521 ; 0525
	00000	S CF 54		00 50	FB 0005	7	MOVB	#0, PHN\$CONVERSING RO. CONVERSING	
		50		65	8A 0004 FB 0005 90 0005 D4 0005 3C 0005	A 55:	CLRL	(R3T) RO	0526 0528
		63		008 000 555 550 550 550 550	D7 0005 B0 0006 D5 0006	F27ACF1468BE	CALLS BICB2 CALLS MOVB CLALLS MOVB CLAVW TSTL BGEQ BRW MOVB INCL MOVZBL MOVZBL BICOMB	RO (R3) RO 6\$ 18\$	•
		52	04	00A5 B3	18 0006 31 0006 90 0006	8 B 61:	BRW MOVB	18\$ a4(R3), CHAR	0530
			04	A3	90 0006 06 0006 9A 0007 9A 0007	5	INCL MOVZBI	4(R3)	0532
		50 51 50 A5	AC	A5	9A 0007	5	MOVZBL	a4(R3), CHAR 4(R3) CONVERSING, RO COMMAND_FLAG, R1 R1, RO R0, COMMAND_FLAG COMMAND_FLAG, 13\$ CHAR, #T3	:
	AC	A5	0.0	50	CA 0007 92 0007	ć	MCOMB	RO. COMMAND FLAG	0577
		4F OD	AC	52	E9 0008 91 0008	4	CMPB	CHAR, #13	0533 0543
	00	50	80	00A53 8A545105 8A545 8A545105 8A545105 8A545105 8A545105 8A545105 8A545105 8A545105 8A545105 8A545105 8A545105 8A545105 8A545105 8A545105 8A5	12 0008 9E 0008	F259C0479D2479E049BE	MOVAB	7\$ TEXT_BUF, RO #13, aBUF_IERO]	•
	00	B540		65	9E 0008 90 0008 06 0009	Ş	INCL	BUF_I	0544 0545
		66		35	FB 0009	7	BRB	BUF I WO QUEUE COLLECTION 12\$: 0546
	00000			10	91 0009 12 0009	9 7 5 :	CMPB BNEQ MOVAB	CHAR, aPHN\$GQ_SWITCH_HOOK+4 9\$	0548
	00	50 8540	В0	A5 OD	9E 000A	0	MOVB	9\$ TEXT_BUF, RO #13, aBUF_IEROJ	0549
		66		65	D6 000A FB 000A	9 B	INCL	BUT 1	0550 0551 0542 0553
		17		AC 52	11 000A 91 000B	E 8\$:	BRB CMPB	NO, QUEUE_COLLECTION 5\$ CHAR, #23	0542
		66		07	12 000B	3	BNEQ	10\$	
				58	DD 000B	8	PUSHL BRB	NO. QUEUE_COLLECTION R8 11\$	0554
		1A		52	91 000B	Ĉ 10 \$:	CMPB	CHAR, #26 178	0557
		66	10	0050540832592901B2708B2F	11 000A 91 000B FB 000B FB 000B 11 000B 91 000B FB 000C 9F 000C FB 000C 9F 000C FB 000C FB 000C FB 000C 91 000D 11 000E 12 000E 11 000E 12 000E 11 000E 12 000E	1	BNEQ CALLS PUSHAB PUSHL CALLS	NO QUEUE_COLLECTION EXIT_CMD N3	0558
	00000	G CF		03	DD 000C	7 118:	PUSHL	#3 #2, PHN\$QUEUE_SMB	
	00000	, ,,	AC	A5	94 0000	£ 128:	CEKR	COMMAND_FLAG	0559
	00000	G DF		52	91 000D	3 138:	BRB (MPB	CHAR, aphnsgq_switch_hook+4	0542 0574
	AC	66 A5		00	FB 000D	Å	CALLS	#0, QUEUE COLLECTION	0575 0576
	AC			CB	11 000E	1	MOVB BRB	#0, QUEUE COLLECTION #1, COMMAND_FLAG 8\$ CHAR, #23	: 0573
		17		07	12 000E	6	CMPB BNEQ	158	0578
		66		58	DD 000E	8	BNEQ CALLS PUSHL	158 WO. QUEUE_COLLECTION	0579
		1A		0B	11 000E 91 000E	D F 15%:	BRB CMPB	16\$ CHAR, #26	0581

INPUT V04-000	INPUT - Analyze and A PHN\$KBD_ROUTE - Initi	ct on Input al Routing of	Input	F 2 16-Sep-1984 02:10:30 VAX-11 Bli 14-Sep-1984 12:53:25 DISK\$VMSMA	ss-32 V4.0-742 Page 10 STER:[PHONE.SRC]INPUT.B32;1 (6)
	00000	66 20 6 CF 50 B0 8540	03 02 AB	FB 000F4 9F 000F7 DD 000FA 16\$: PUSHAB HANGUP_CMD FB 000FC 11 00101 9E 00103 17\$: MOVAB TEXT_BUF, RO 90 00107 MOVB CHAR, aBUF_IERO 11 0010E 11 0010E 11 0010E 11 0010E 11 0010E 11 0010E 11 REB 12 RET	0573 0584 0585 0528

; Routine Size: 276 bytes, Routine Base: \$CODE\$ + 0028

```
G 2
16-Sep-1984 02:10:30
14-Sep-1984 12:53:25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               VAX-11 Bliss-32 V4.0-742 PROJECT PROJE
INPUT
                                                                                              INPUT - Analyze and Act on Input
V04-000
                                                                                             PHNSCMD_PARSE - Parse a Command
                                                                                           0597
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0
                                                                                                                                          "sbttl 'PHN$CMD_PARSE - Parse a Command'
                functional Description:
                                                                                                                                                                                           This steering message routine is invoked when we have part
                                                                                                                                                                                        or all of a command from PHN$KBD ROUTE. We collect characters until we have a complete command, and then we parse and execute it.
                                                                                                                                                      Formal Parameters:
                                                                                                                                                                                                                                                                                       Part or all of a command. Never a null string and
                                                                                                                                                                                         cmd_text
                                                                                                                                                                                                                                                                                       never parts of two commands.
                                                                                                                                                        Implicit Inputs:
                                                                                                                                                                                          global data
                                                                                                                                                       Implicit Outputs:
                                                                                                                                                                                          global data
                                                                                                                                                       Returned Value:
                                                                                                                                                                                         none
                                                                                                                                                      Side Effects:
                                                                                                                                           global routine phn$cmd_parse(cmd_text): novalue = begin
                 301
                                                                                                                                           bind
                302
303
                                                                                                                                                                                          text_dsc = .cmd_text: descriptor;
                304
305
306
307
                                                                                                                                           own
                                                                                                                                                                                           command_buf: vector[80,byte],
                                                                                                                                                                                          buf_i: Tong initial(0),
                308
309
310
311
312
313
                                                                                                                                                                                           tparse_block: block[tpa$k_length0,byte]
                                                                                                                                                                                                                                         command_proc: long;
                                                                                                                                           local
                314
315
316
317
                                                                                                                                                                                           status: long, command_complete: byte,
                                                                                            0638
0639
                                                                                                                                                                                           char: byte,
                                                                                                                                                                                            in_quotes: byte, i: long;
```

```
H 2
16-Sep-1984 02:10:30
14-Sep-1984 12:53:25
                                                                                                                                                         VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[PHONE.SRC]INPUT.B32;1
INPUT
                           INPUT - Analyze and Act on Input
PHN$CMD_PARSE - Parse a Command
V04-000
                                             The following is the parsing table used to analyze a command and determine which command routine to call.
                           0640
0642
0643
0645
0646
0647
0648
     The TRANSCRIBE command has been more or less temporarily removed.
                                         $init_state(command_state,command_key);
                                         Sstate (,
                                                                      (tpa%_blank),
(tpa%_lambda)
                                                        );
                            0650
                           0650
0651
0652
0653
0654
0655
0656
0657
                                         Sstate (,
                                                                      (tpa$_eos,tpa$_exit),
(ctrl w, noarg
('ANSWER', noarg
                                                                                                 noargs),
                                                                                                                                                         command proc),
                                                                                                  noargs, ,phn$answer_cmd,
                                                                       'DIAL'
                                                                                                     args,,phn$dial_cmd,
                                                                       'DIRECTORY'.
                                                                                                     args, , phn$directory_cmd,
                                                                                                 noargs..phn$exit_cmd.
args..phn$facsimile_cmd.
                                                                        'EXIT
                                                                        'FACSIMILE',
                                                                        'HANGUP',
                                                                                                 noargs, phn$hangup_cmd,
                                                                                                 args, phn$help_cmd,
noargs, phn$hold_cmd,
args, phn$mail_cmd,
args, phn$dial_cmd,
args, phn$reject_cmd,
args, phn$transcribe_cmd,
                            0650
                                                                        HELP"
                                                                        HOLD .
                           0661
                                                                        MAIL .
                           0662
0663
                                                                        PHONE
                                                                        REJECT
                           0664
                                                                        'TRANSCRIBE',
                           0665
                           0666
                                                                        'UNHOLD'
                                                                                                  noargs, phnSunhold_cmd,
                           0667
                                                                      (tpa$_lambda,
                                                                                                     args, phn$dial_cmd,
                                                                                                                                                          command_proc)
                            0668
                                                        ):
                            0669
                           0670
0671
0672
0673
                                                        (noargs
                                                                      (tpa$ blank),
                                                                      (tpa$_lambda)
                          0674
0675
0676
                                         Sstate
                                                                      (tpa$_eos,tpa$_exit)
                                                        ):
                            0677
                           0678
0679
0680
0681
                                         Sstate
                                                        (args.
                                                                      (tpa%_blank,tpa%_exit)
                                                                      (tpa$_lambda,tpa$_exit)
     360
                                                        ):
```

LI VO

```
16-Sep-1984 02:10:30
14-Sep-1984 12:53:25
INPUT
                                                                                                                               VAX-11 Bliss-32 V4.0-742 P. DISK$VMSMASTER:[PHONE.SRC]INPUT.B32;1
                       INPUT - Analyze and Act on Input
V04-000
                       PHNSCMD_PARSE - Parse a Command
                               2 ! We begin by displaying the command fragment on the screen.
                       0682
0683
    363
364
366
366
366
367
377
377
377
377
377
                       0684
0685
                                  phn$show_text(0,text_dsc);
                       0686
0687
0688
                                     We look at each character that has been passed to us. Note that a
                                     similar analysis has to be done in PHN$SHOW_TEXT. There are the
                                     following cases:
                      0689
0690
0691
0692
0693
0694
                                              normal
                                                                     Add character to command.
                                                                     End of the command. Parse & execute it. Delete last character in command.
                                              return
                                              delete
CTRL/U
                                                                     flush entire command and start over.
                                  command_complete = false;
                                  while dec (text_dsc[len]) geg 0 do (
                      0696
0697
0698
                                              char = ch$rchar_a(text_dsc[ptr]);
    378
379
                      0699
0700
0701
                                              selectoneu .char of set [%x'20' to %x'7e', %x'80' to %x'ff']:
    380
    381
                      0702
0703
0704
0705
0706
0707
0708
    382
383
384
385
                                                                     (command_buf[.buf_i] = .char;
                                                                     buf_i = minu(.buf_i+1,79););
                                              [ret]:
                                                                     command_complete = true:
    386
387
                                              [delete]:
                                                                     buf_i = max(.buf_i-1, 0);
    388
389
                                                                     buf_i = 0:
                                              [ctrl_u]:
    390
                       0710
                               tes:
                      0711
0712
0713
0714
0715
   391
392
393
                                  ):
   394
395
                                     If we have a complete command now, we can parse it. All we are interested
                                     in here is the command verb; all arguments will be passed on to the
    396
397
                      0716
0717
                                     command processing routine.
   398
399
400
401
                      0718
0719
0720
0721
0722
0723
0724
0725
0726
0727
0728
0729
0731
0732
0735
0736
0737
                                  if not .command_complete then
                                              return:
                                     We need to uppercase the command for comparison purposes. However, any
    402
                                    quoted strings should be left alone.
   404
405
406
407
                                  in_quotes = false;
                                 incr i from 0 to .buf_i-1 do (
    if not .in_quotes and
        .command_buf[.i] gegu 'a' and .command_buf[.i] legu 'z' then
        command_buf[.i] = .command_buf[.i] and %b'11011111';
    408
                                              in_quotes = .in_quotes xor (.command_buf[.i] eqlu ''');
    409
                               3);
    410
   411
   412
                                  tparse_block[tpa$l_stringcnt] = .buf_i;
tparse_block[tpa$l_stringptr] = command_buf;
    414
                                  command_proc = 0;
                                  status = lib$tparse(tparse_block,command_state,command_key);
    415
   416
                                     If we didn't get a syntax error, we can call the command procedure, passing it a descriptor of the command arguments (which it can clobber).
    418
```

L!

```
J 2
16-Sep-1984 02:10:30
14-Sep-1984 12:53:25
                                                                                                                                                                                                                                                                                         VAX-11 Bliss-32 V4.0-742 Particular Particul
INPUT
                                                   INPUT - Analyze and Act on Input
PHN$CMD_PARSE - Parse a Command
V04-000
        419
42123
4225
4226
4227
4230
4334
4334
                                                                             if .status eglu lib$_syntaxerr then
                                                                                                      phn$inform(phn$_badcmd)
                                                                            else (
                                                                                                      check (.status);
if .command_proc nega 0 then
                                                   0744
                                                                                                                                (.command_proc) (tparse_block[tpa$l_stringcnt]);
                                                                             ! All done. Clear out command line on screen and reset our buffer.
                                                                            phn$show_text(0,describe(%char(ctrl_u)));
buf_i = 0;
                                                   0752
0753
0754
                                                                             return;
                                                                            end:
                                                                                                                                                                                                                                              .PSECT _LIB$KEY1$, NOWRT, SHR, PIC,1
                                                                                                                                                                                                00000 :TPASKEYSTO
                                                                                                                                                                                                                                               .BLKB
                                                                                                                   52 45 57 53 4E
                                                                                                                                                                                                00000 : TPASKEYST
                                                                                                                                                                                41
                                                                                                                                                                                                                                                                      \ANSWER\
                                                                                                                                                                                                                   U.11:
                                                                                                                                                                                                                                              .ASCII
                                                                                                                                                                                                00006
                                                                                                                                                                                   FF
                                                                                                                                                                                                                                                BYTE
                                                                                                                                                                                                 00007
                                                                                                                                                                                                                   ; TPASKEYSTO
                                                                                                                                                                                                                    U.16:
                                                                                                                                                                                                                                              .BLKB
                                                                                                                                                                                                00007
                                                                                                                                                                                                                   ; TPASKEYST
                                                                                                                                             40 41 49
                                                                                                                                                                                  44
                                                                                                                                                                                                                   U.18:
                                                                                                                                                                                                                                              .ASCII
                                                                                                                                                                                                                                                                      /DIAL/
                                                                                                                                                                                                0000B
0000C
                                                                                                                                                                                                                    : TPASKEYSTO
                                                                                                                                                                                                                   U.24: BI
                                                                                                                                                                                                                                               BLKB
                                                                                       52 4F
                                                                                                                                                          52
                                                                                                                                                                                                0000C
                                                                                                                                                                                                                    U.26:
                                                                                                                                                                                                                                                                      \DIRECTORY\
                                                                                                                                                                                                                                              .ASCII
                                                                                                                                                                                                00015
                                                                                                                                                                                                                                               BYTE
                                                                                                                                                                                   FF
                                                                                                                                                                                                00016
                                                                                                                                                                                                                   :TPASKEYSTO
                                                                                                                                                                                                                                                BLKB
                                                                                                                                                                                                00016 : TPASKEYST
                                                                                                                                             54 49 58 45
                                                                                                                                                                                                                   Ú.33:
                                                                                                                                                                                                                                              .ASCII
                                                                                                                                                                                                                                                                      /EXIT/
                                                                                                                                                                                                                                               BYTE
                                                                                                                                                                                                0001B
                                                                                                                                                                                                                   TPASKEYSTO
                                                                                                                                                                                                                                               BLKB
                                                                                                                                                                                                                   : TPASKEYST
                                                                                                                                49
                                                                                                                                            53 43 41
                                                                                                                                                                                                0001B
                                                                                                                                                                                   46
                                                                                                                                                                                                                                              .ASCII
                                                                                                                                                                                                                                                                      \FACSIMILE\
                                                                                                                                                                                                                    U.40:
                                                                                                                                                                                                00024
                                                                                                                                                                                                                    : TPASKEYSTO
                                                                                                                                                                                                                   U.45:
                                                                                                                                                                                                                                               BLKB
                                                                                                                                55 47 4E 41
                                                                                                                                                                                                00025
                                                                                                                                                                                                                   : TPASKEYST
                                                                                                                                                                                   48
                                                                                                                                                                                                                                                                      \HANGUP\
                                                                                                                                                                                                                    U.47:
                                                                                                                                                                                                0002C
                                                                                                                                                                                                                   : TPASKEYSTO
                                                                                                                                                                                                                    U.52:
                                                                                                                                                                                                0002C ; TPASKEYST
                                                                                                                                                          40 45
                                                                                                                                                                                  48
                                                                                                                                                                                                                   U.54:
                                                                                                                                                                                                                                              .ASCII
                                                                                                                                                                                                                                                                      HELP1
                                                                                                                                                                                                00030
                                                                                                                                                                                                                                               .BYTE
                                                                                                                                                                                                                                                                      -1
```

00031 : TPASKEYSTO

VQ

5F

```
INPUT - Analyze and Act on Input
PHNSCMD_PARSE - Parse a Command
```

```
K 2
16-Sep-1984 02:10:30 VAX-11 Bliss-32 V4.0-742 Page 15
14-Sep-1984 12:53:25 DISK$VMSMASTER:[PHONE.SRC]INPUT.B32;1 (9)
```

Parse a	Cor	nmand	}			14	4-Sep-1984 12:	53:25	DISKSVMSMASTER: [PHONE.S	RCJINPUT.B32:1	(9)
		44	40	4F	48	00031	U.59: BLKE :TPASKEYST U.61: ASCI		\		
					FF	00035	BYTE: TPASKEYSTO	-1	•	;	
		40	49	41	40	00036	U.66: BLKE				
					FF	0003A	U.68: .ASCI		\		
	45	4E	45	48	50	0003B	:TPA\$KEYSTO U.73: BLKE :TPA\$KEYST	0			
	40	16	41	40	FF	00040	U.75: .ASCI		E\	•	
81		15		15	63	00041	:TPASKEYSTO	0			
54	43	45	4A	45	52 FF	00041	TPASKEYST U.82: ASCI	I \REJE	CT\	*	
						00048	TPASKEYSTO			•	
44	40	4F	48	4E	55	00048	:TPASKEYST U.89: .ASCI	I VUNHO	LD\		
					FF	0004E 0004F	:TPASKEYFILL U.98: BYTE			;	
							.PSEC		STATES, NOWRT, SHR, PIC		
						00000	COMMAND_STATE	0			
				01	1F2	00000	:TPASTYPE				
				0	5F6	00002	; TPASTYPE			•	
				11	1F7	00004				ě	
				FI	FFF	00006	:TPASTARGET			•	
				10	017	80000	TPASTYPE WORD			ě	
				0(*000	0000A	U.6: .WORD				
				7	100	00000	U.8: .WORD		-U.8>-2>	e e	
						0000E	U.12: .WORD	28928			
							U.13: LONG		MAND_PROC-U.13>-4>		
				0	*000	00016	U.14: .ADDR		ANSWER_CMD		
					101		U.15: .WORD		-U.15>-2>	*	
						0001A	U.19: WORD			:	
							U.20: LONG		MAND_PROC-U.20>-4>	•	
							U.21: .ADDF	ESS PHN\$	DIAL_CMD	0	

```
0000+ 00022 :TPASTARGET U.23: .WO
          00024 :TPASTYPE U.27: WORD
                                  <<u.22-u.23>-2>
    7102
                                  28930
00000000+ 00026 :TPA$ADDR
                                  <<COMMAND_PROC-U.28>-4>
                          . LONG
00000000G 0002A ; TPASMASK
                 U.29:
                          .ADDRESS PHNSDIRECTORY_CMD
    0000+ 0002E ; TPASTARGET
                 U.30:
                          . WORD
                                  <<u.22-u.30>-2>
    7103 00030 : TPASTYPE
                                  28931
                          WORD
00000000 00032 :TPA$ADDR U.35: .L
                          .LONG
                                  <<COMMAND_PROC-U.35>-4>
00000000G 00036 ; TPASMASK
                 U.36:
                          .ADDRESS PHNSEXIT_CMD
    0000* 0003A : TPA$TARGET U.37: .WO
                          . WORD
                                  <<u.7-u.37>-2>
    7104
          0003C : TPASTYPE
                                  28932
                 U.41:
                          WORD
00000000* 0003E :TPA$ADDR
                 U.42:
                          . LONG
                                  <<COMMAND_PROC-U.42>-4>
00000000G 00042 : TPASMASK
                 U.43:
                          ADDRESS PHNSFACSIMILE_CMD
    0000* 00046 ; TPA$TARGET
                 U.44:
                          , WORD
                                  <<U.22-U.44>-2>
    7105
          00048 : TPASTYPE
                                  28933
                          WORD
                 U.48:
00000000* 0004A : TPA$ADDR
                 U.49:
                          .LONG
                                  <<COMMAND_PROC-U.49>-4>
00000000G 0004E ; TPA$MASK
                 U.50:
                          ADDRESS PHNSHANGUP_CMD
    0000+ 00052 & TPASTARGET
                 U.51:
                                  <<u.7-u.51>-2>
          00054
                 ; TPASTYPE
    7106
                 U.55:
                                  28934
                          . WORD
00000000 00056
                 : TPASADDR
                 U.56:
                          . LONG
                                  <<COMMAND_PRUC-U.56>-4>
00000000G 0005A ; TPASMASK
                 U.57:
                          .ADDRESS PHNSHELP_CMD
    0000* 0005E : TPASTARGET
                 U.58:
                          . WORD
                                  <<u.22-u.58>-2>
    7107
          00060
                 : TPASTYPE
                                  28935
                 U.62:
                          . WORD
00000000 00062
                 :TPA$ADDR
                 U.63:
                          .LONG
                                  <<COMMAND_PROC-U.63>-4>
                 : TPASMASK
00000000G 00066
                 U.64:
                          .ADDRESS PHN$HOLD_CMD
    0000* 0006A
                 : TPASTARGET
                 U.65:
                          . WORD
                                  <<U.7-U.65>-2>
          0006C
    7108
                 : TPASTYPE
                                  28936
                 U.69:
                          . WORD
00000000 0006E
                 ; TPASADDR
                 U.70:
                          .LONG
                                  <<COMMAND_PROC-U.70>-4>
000000006 00072
                 ; TPASMASK
                          .ADDRESS PHNSMAIL_CMD
                 Ù.71:
    0000* 00076 ; TPASTARGET
```

LI

:

LI VO

```
<<U.22-U.72>-2>
    7109
         00078 ; TPASTYPE
                                 28937
                U.76:
                         WORD
00000000 0007A ; TPASADDR
                U.77:
                         . LONG
                                 <<COMMAND_PROC-U.77>-4>
00000000G 0007E
                ; TPASMASK
                Ú.78:
                         .ADDRESS PHNSDIAL_CMD
    0000+ 00082 : TPASTARGET
                                 <<U.22-U.79>-2>
                Ù.79:
                         WORD
    710A 00084
                TPASTYPE
                                 28938
                         WORD
00200000 00086 ; TPA$ADDR
                J.84:
                         .LONG
                                 <<COMMAND_PROC-U.84>-4>
00000000G 0008A ; TPA$MASK
    0000* 0008E :TPASTARGET
         00090 : TPASTYPE
    710B
                U.90:
                         . WORD
                                 28939
00000000 00092 :TPA$ADDR
                U.91:
                         .LONG
                                 <<COMMAND_PROC-U.91>-4>
00000000G 00096 :TPA$MASK
                         .ADDRESS PHN$UNHOLD_CMD
    0000+ 0009A : TPASTARGET
                U.93:
                         . WORD
                                 <<U.7-U.93>-2>
    75F6 0009C : TPA$TYPE U.94: ..
                                 30198
00000000 0009E : TPA$ADDR
                U.95:
                         . LONG
                                 <<COMMAND_PROC-U.95>-4>
00000000G 000A2 :TPA$MASK
                         .ADDRESS PHN$DIAL_CMD
    0000* 000A6 : TPASTARGET
                U.97:
                        .WORD
                                 <<U.22-U.97>-2>
          000A8 :NOARGS
                                 0
                         .BLKB
    01F2
         000A8 : TPASTYPE
                U.99:
                                 498
          AAOOO
                : TPASTYPE
    05F6
                U.100:
                         . WORD
                                 1526
    15F7
          OOOAC : TPASTYPE
                Ú.101:
                                 5623
          000AE ; TPASTARGET
    FFFF
                U.102: .WORD
                                 -1
          000B0 :ARGS
                                 0
    11F2
          00080
                : TPASTYPE
                U.103:
                                 4594
          000B2
    FFFF
                : TPASTARGET
                U.104:
                         . WORD
                                 -1
    15F6
          U00B4
                : TPASTYPE
                        .WORD
                Ŭ.105:
                                 5622
    FFFF
          000B6 ; TPASTARGET
                                 -1
                U.106: .WORD
                         .PSECT
                                 _LIB$KEYO$, NOWRT, SHR, PIC,1
```

00000 COMMAND_KEY::

INPUT V04-000	INPUT - Analyze and Act on Input PHN\$CMD_PARSE - Parse a Command		- 1	N 2 6-Sep-1984 4-Sep-1984	02:10:	30	VAX-11 BLiss-32 V4.0-742 DISK\$VMSMASTER:[PHONE.SRC]INP	Page UT.B32;1	18
		0000* 0000* 0000* 0000* 0000* 0000*	00000 00000 00002 00004 00006 00008 0000A 0000C 0000E 00010	:TPA\$KEY U.1: :TPA\$KEY U.17: :TPA\$KEY U.25: :TPA\$KEY U.32: :TPA\$KEY U.39: :TPA\$KEY U.46: :TPA\$KEY U.53: :TPA\$KEY U.60: :TPA\$KEY U.60: :TPA\$KEY U.60: :TPA\$KEY U.74:	BLKB	0 0 <u.9- <u.16 <u.24 <u.31 <u.38 <u.45 <u.52 <u.59 <u.66 <u.73< td=""><td>U.1> -U.1> -U.1> -U.1> -U.1> -U.1> -U.1> -U.1> -U.1> -U.1></td><td></td><td></td></u.73<></u.66 </u.59 </u.52 </u.45 </u.38 </u.31 </u.24 </u.16 </u.9- 	U.1> -U.1> -U.1> -U.1> -U.1> -U.1> -U.1> -U.1> -U.1> -U.1>		
			00014	U.81: :TPA\$KEY U.88:	WORD WORD PSECT	<u.80 <u.87 \$PLIT</u.87 </u.80 		:	
		15 00000001 00000000°	0002C 0002D 00030 00034	P.AAG:	ASCII BLKB LONG ADDRESS		H ,NOEXE,2		
	00000003	00000000	000A8 000AC	COMMAND_E BUF_1: TPARSE_BE COMMAND_E	BLKB LONG OCK: LONG BLKB	80 0 8, 3 28 4		•	
	54 000	001c 00' CF 9E	00000		PSECT ENTRY 10VAB		\$,NOWRT,2 MD_PARSE, Save R2,R3,R4 , R4	; 06	621

	54	0000	001C 00000 CF 9E 00002	.ENTRY	PHN\$CMD PARSE, Save R2,R3,R4	: 0621
	54 52	04	AC DO 00007	MOVL PUSHL	BUF I R4 CMD_TEXT. R2 R2	0624 0684
0000G	CF		7E D4 0000D 02 FB 0000F	CLRL	-(SP)	•
			53 94 00014	CALLS	W2. PHN\$SHOW_TEXT COMMAND_COMPLETE	0694

VC LI

INPUT V04-000	INPUT - Analyze and PHN\$CMD_PARSE - Par			as breeze as	-1984 02:10 -1984 12:53		
		50	62 50	3C 00016 1\$: D7 00019 B0 0001E 19 00020 90 00022 D6 00026 91 00026 91 00026 91 00032 91 00038 9E 0003A 3\$: 90 0003E C1 00047 1B 00047 1B 00047 1B 00050 11 00056 91 00059 91 00058 11 00056 91 00060 91 00060	MOVZWL DECL	(R2), R0 R0	: 0695
		62	50 50 50 50 50 50 50 82 04 82 51	B0 0001B D5 0001E	MOVW TSTL BLSS MOVB INCL CMPB BLSSU MOVAB MOVAB MOVB ADDL3 CMPL BLEQU MOVZBL	RO, (R2) RO 8\$	
		51	04 B2 04 A2	19 00020 90 00022 06 00026 91 00029	MOVB	34(R2), CHAR	0697
		20	51	91 00029 1F 00020	CMPB BLSSU	a4(R2), CHAR 4(R2) CHAR, #32 2\$	0700
	7		06 51 06 51	91 0002E 1B 00032	CMPB BLEQU	CHAR, #126 3\$	
	8		10	91 00034 2\$: 1F 00038	CMPB BLSSU	CHAR, #128	
	50	0 B440	B0 A4 51 01	9E 0003A 3\$: 90 0003E c1 00043	MOVAB	CHAR, aBUF_I[RO]	0702
	0000004	64 F 8F	50	D1 00047	CMPL	COMMAND_BUF, RO CHAR, aBUF_I[RO] #1. BUF_I, RO RO, #79 6\$ #79, RO	0703
		50	50 1E 4F 8F 18	9A 00050 11 00054	MOVZBL	#79, RO 6\$	
		OD	51	91 00056 4\$:	BRB CMPB BNEQ MOVB BRB	CHAR, #13	070
		53	05 01 86 51	90 0005B 11 0005E	MOVB BRB	#1. COMMAND_COMPLETE	
	7		51 0D	91 00060 5\$: 12 00064	CMPH	CHAR, #127 7\$	070
	50	64	01 02	12 00064 C3 00066 18 0006A D4 0006C	BNEQ SUBL3 BGEQ CLRL MOVL	7\$ #1, BUF_I, R0 6\$ R0 R0, BUF_I 1\$	
		64	50	D4 0006C D0 0006E 6\$:	MOVL	RO, BUF_I	
		15	0D 01 02 50 50 A3 51 9E 64 9A 53	91 00073 7\$:	BRB CMPB BNFO	CHAR, #21	: 070
			64 9A	04 00078 11 0007A	BNEQ CLRL BRB	BUF_I	069
		01		E8 0007C 8\$:	BRB BLBS RET	COMMAND_COMPLETE, 9\$	0699
		50	52 01	94 00080 9\$: CE 00082	CLRB MNEGL	IN_QUOTES	0724
		16 1 8F	52 01 27 52 80 A440 0E 80 A440 20 8F	E8 00087 10\$:	BRB	IN_QUOTES #1. I 13\$ IN_QUOTES, 11\$ COMMAND_BUF[I], #97 11\$	0726 072
	6		0E	1F 00090	BLSSU	11\$	012
		0 A440	06 20 8F	1A 00098 8A 0009A	BGTRU	COMMAND_BUF[I], #122 11\$ #-224, COMMAND_BUF[I]	072
		22	51 B0 A440	04 000A0 11\$:	CLRL	R1 COMMAND_BUF[I], #34	072 072
			BO A440 02 51	12 000A7 06 000A9	BRB BLBS CMPB BLSSU CMPB BGTRU BICB2 CLRL CMPB BNEQ INCL XORB2 AOBLSS	178	
	D5	52 50 C A4 O A4	51 64	8C 000AB 12\$: F2 000AE 13\$:	XORB2 AOBLSS	R1, IN_QUOTES BUF_I, 10\$	072
	0	0 A4	80 A4 28 A4 0000' CF	D4 0006C D0 0006E 6\$: 11 00071 91 00073 12 00076 D4 00078 11 0007A E8 0007C 8\$: 04 0007F 94 00080 CE 00082 11 00085 E8 00087 10 00092 1A 00098 BA 0009A D4 000A0 91 000A2 12 000A7 D6 000A9 B7 000B2 P6 000B6 D4 000BB P7 000BE PF 000C2	MOVL MOVAB CLRL PUSHAB PUSHAB	R1 R1, IN_QUOTES BUF_I, IO\$ BUF_I, TPARSE_BLOCK+8 COMMAND_BUF, TPARSE_BLOCK+12 COMMAND_PROC COMMAND_KEY	072 073 073 073 073
			80 A4 28 A4 0000' CF 0000' CF	9F 000BE	PUSHAB	COMMAND_PROC COMMAND_KEY COMMAND_STATE	073

LI VO

INPUT V04-000	INPUT - Analyze and Ac PHN\$CMD_PARSE - Parse	t on Inpu a Command	t	1	C 3 6-Sep-19 4-Sep-19	84 02:10 84 12:53	0:30 VAX-11 BLiss-32 V4.0-742 B:25 DISK\$VMSMASTER:[PHONE.SRC]I	Page 20 NPUT.B32;1 (9)
	00000000G 00000000G	00 52 8F	04 A4 03 50 52 00 00 8F 01	9F 00006 FB 00009 D1 00003 12 00000 DD 00000 FB 000E3		PUSHAB CALLS MOVL CMPL BNEQ PUSHL CALLS	TPARSE_BLOCK #3, LIB\$TPARSE R0, STATUS STATUS, #LIB\$_SYNTAXERR 14\$	0740
	0000G	CF 00000	000G 8F 01 18	DD 000D0 FB 000E2		BKB	#PHN\$ BADCMD #1. PAN\$INFORM 16\$	0741
	00000000G	09 00 50	28 A4 06 06 00 CF 7E 02	E8 000E9 DD 000E9 DD 000F9 13 000F9 9F 000FE 9F 00101 D4 00106 D4 00106	14\$:	BLBS PUSHL CALLS MOVL BEQL	STATUS, 15\$ STATUS #1, LIB\$SIGNAL COMMAND_PROC, RO 16\$	0743
			OC A4 01 000' CF 7E	9F 000FE FB 000FE 9F 00101 D4 00101	16\$:	PUSHAB CALLS PUSHAB CLRL CALLS	TPARSE_BLOCK+8 #1, (R0) P.AAG -(SP)	0745
	0000G	CF	02 64	FB 00107 04 00100 04 00100		CALLS CLRL RET	#2. PHN\$SHOW_TEXT BUF_I	0751 0754
; Routine Siz	ze: 271 bytes, Routine	Base: \$	CODES + C)13F				
: 435 : 436	0755 1 0756 0 end eludom							
						.EXTRN	LIB\$SIGNAL	
. Name	Pytos	PSECT SU	MMARY		********			
SOWNS SPLITS	Bytes	212 NOVE	C. WRT.	RD .NOE)	E,NOSHR, E,NOSHR,	LCL.	REL, CON, NOPIC, ALIGN(2) REL, CON, NOPIC, ALIGN(2)	
SCODES LIBSKEYOS LIBSKEYOS LIBSKEYIS	\$	590 NOVE 24 NOVE 184 NOVE	C, NOWRT, C, NOWRT, C, NOWRT, C, NOWRT,	RD . EX	E.NOSHR, E.SHR, E.SHR, E.SHR,	LCL, LCL,	REL, CON, NOPIC, ALIGN(2) REL, CON, PIC, ALIGN(1) REL, CON, PIC, ALIGN(1) REL, CON, PIC, ALIGN(1)	

LI VC

Library Stat	tist	ics
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File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
\$255\$DUA28:[SYSLIB]STARLET.L32:1 \$255\$DUA28:[SYSLIB]TPAMAC.L32:1	9776 42	24	57	581 14	00:00.7

INPUT V04-000

INPUT - Analyze and Act on Input PHN\$CMD_PARSE - Parse a Command

D 3 16-Sep-1984 02:10:30 14-Sep-1984 12:53:25

VAX-11 Bliss-32 V4.0-742 Page 21 DISK\$VMSMASTER:[PHONE.SRC]INPUT.B32;1 (9)

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$: INPUT/OBJ=OBJ\$: INPUT MSRC\$: INPUT/UPDATE=(ENH\$: INPUT)

: Size: 590 code + 556 data bytes : Run Time: 00:16.8 : Elapsed Time: 01:03.8 : Lines/CPU Min: 2703 : Lexemes/CPU-Min: 87343 : Memory Used: 200 pages : Compilation Complete

LI

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